

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P367296

Luminaire Tested: **MSA-SA2B-730-U-T2**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-8)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2B-730-U-T2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9048 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

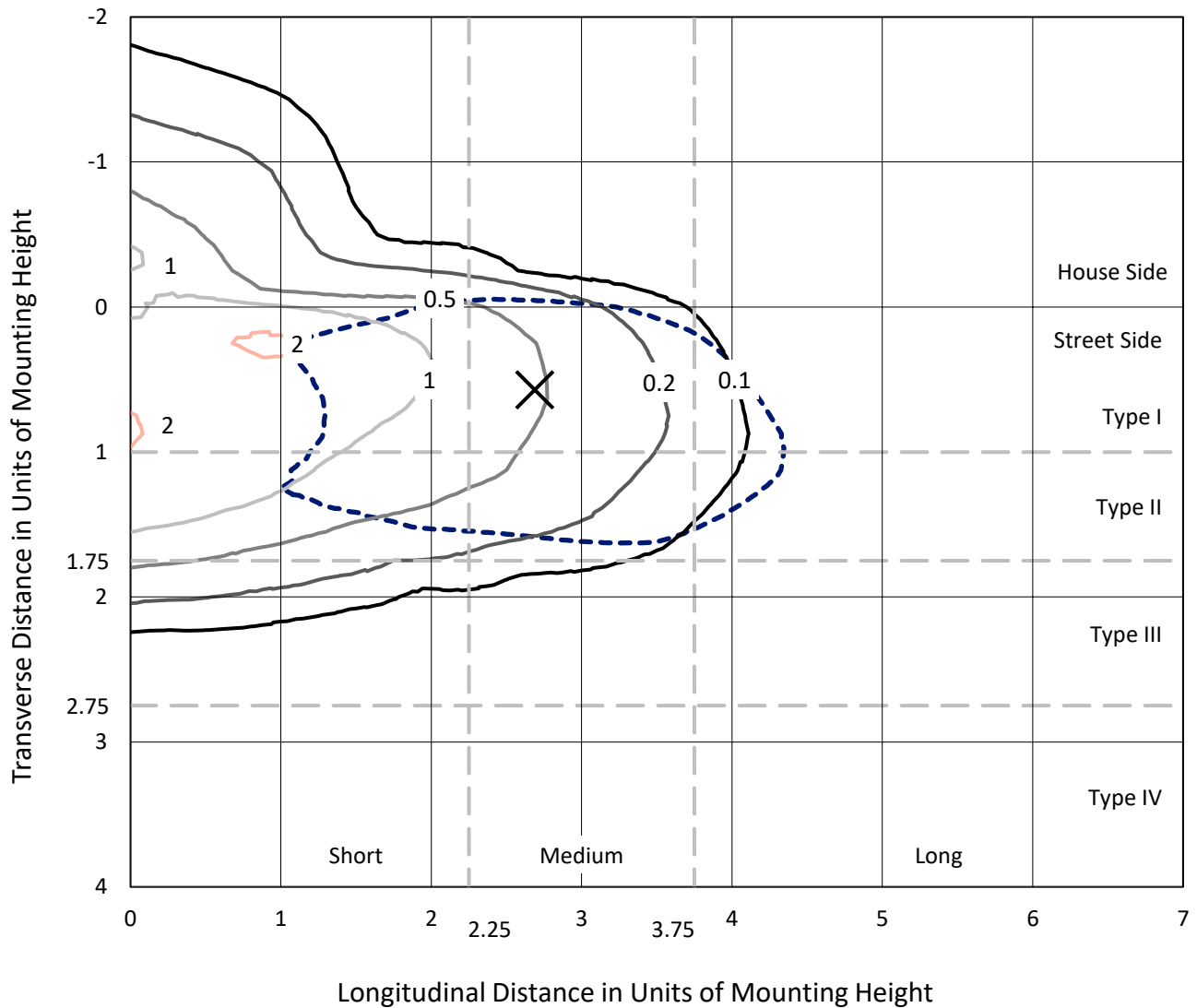
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

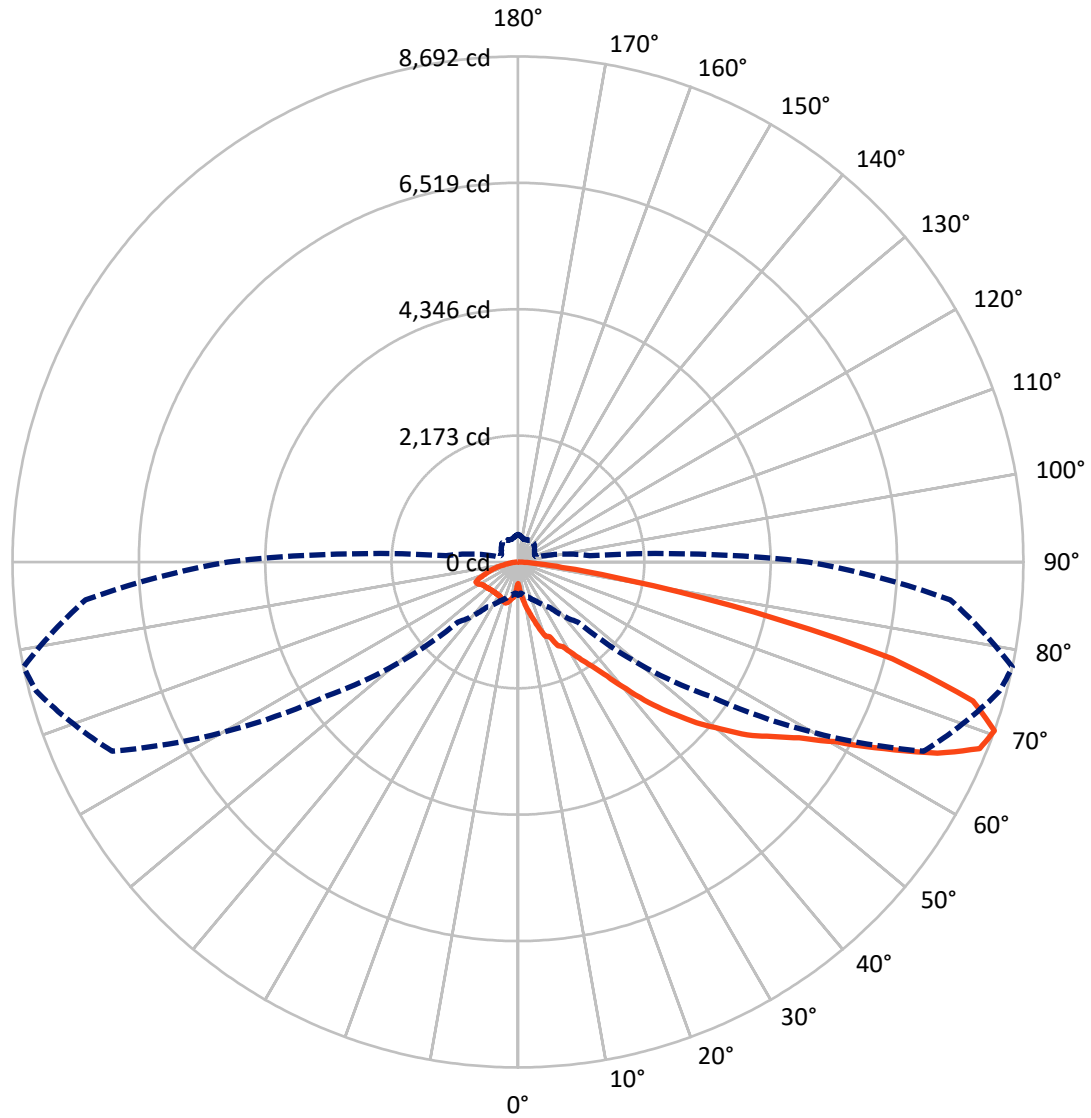
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1614.9	0.0	1614.9
	% Fixture	17.8	0.0	17.8
Street Side	Lumens	7433.1	0.0	7433.1
	% Fixture	82.2	0.0	82.2
Total	Lumens	9048.0	0.0	9048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	0.6
10°-20°	251.2	2.8
20°-30°	483.5	5.3
30°-40°	814.3	9.0
40°-50°	1409.0	15.6
50°-60°	2127.5	23.5
60°-70°	2356.4	26.0
70°-80°	1358.6	15.0
80°-90°	190.5	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9048.0	100.0
0°-180°	9048.0	100.0

Coefficient of Utilization

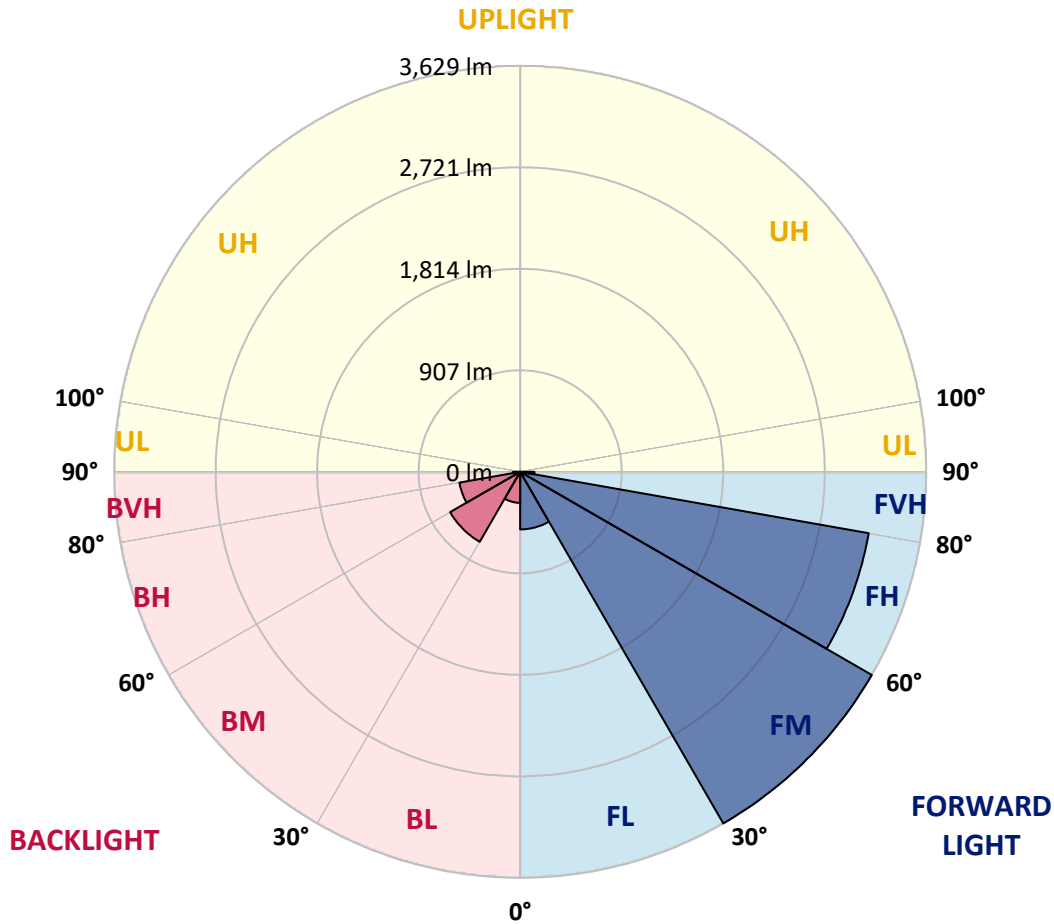


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.4	5.7			
FM (30°-60°)	3628.5	40.1			
FH (60°-80°)	3163.1	35.0			G2/5000
FVH (80°-90°)	127.1	1.4			G2/225
BL (0°-30°)	277.3	3.1	B1/500		
BM (30°-60°)	722.3	8.0	B1/1000		
BH (60°-80°)	551.9	6.1	B2/1000		G2/1000
BVH (80°-90°)	63.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9
2.5°	474.9	457.9	432.3	442.8	455.6	457.2	453.0	429.6	421.7	439.4	444.7
5°	665.4	636.7	619.3	613.7	594.5	554.5	583.1	568.4	571.4	562.8	579.7
7.5°	825.7	806.4	780.8	773.6	729.5	698.2	717.8	711.4	680.4	668.4	687.6
10°	907.1	886.0	887.1	871.7	860.0	863.0	853.2	824.9	801.9	785.7	739.3
12.5°	956.2	961.5	989.7	981.8	1026.0	1062.2	1034.6	992.8	920.0	905.3	859.2
15°	1072.7	1092.3	1065.9	1078.0	1096.9	1166.3	1155.0	1145.9	1069.0	1040.3	955.4
17.5°	1192.7	1196.4	1156.5	1150.1	1195.3	1230.4	1274.5	1223.6	1233.0	1213.0	1075.7
20°	1218.3	1244.3	1187.0	1147.4	1240.6	1310.0	1364.7	1310.7	1360.5	1365.8	1174.9
22.5°	1312.2	1280.9	1205.5	1166.6	1248.1	1333.4	1422.4	1452.6	1436.7	1392.2	1270.8
25°	1377.5	1360.9	1284.0	1241.0	1271.9	1350.3	1506.5	1585.3	1599.3	1593.2	1362.0
27.5°	1498.6	1506.9	1348.5	1360.5	1317.5	1324.7	1557.0	1761.5	1674.3	1650.2	1475.2
30°	1689.8	1652.8	1475.2	1485.0	1413.7	1401.6	1663.8	1913.5	1835.4	1806.4	1568.4
32.5°	1889.3	1892.7	1677.0	1593.2	1555.2	1543.1	1642.7	1993.1	2039.1	2001.4	1709.0
35°	2170.7	2151.1	1895.8	1785.6	1647.9	1626.8	1793.2	2223.9	2308.4	2202.8	1876.1
37.5°	2599.2	2540.0	2242.8	1988.2	1886.3	1862.2	2008.2	2431.0	2621.1	2489.8	2149.2
40°	2943.2	2822.9	2552.8	2242.8	2070.4	2100.2	2160.9	2682.2	2945.5	2871.5	2401.9
42.5°	3217.4	3110.7	2772.3	2554.3	2320.1	2283.1	2349.5	2993.4	3386.8	3314.4	2717.3
45°	3480.3	3263.1	3019.0	2822.9	2597.7	2642.6	2632.8	3311.0	3928.0	3705.1	2996.0
47.5°	3739.8	3535.8	3280.4	3016.8	2790.1	3069.6	2965.1	3547.1	4293.2	4128.0	3289.5
50°	4073.3	3848.8	3558.0	3292.9	3157.1	3361.5	3186.1	3747.0	4702.0	4508.2	3566.3
52.5°	4294.7	4076.3	3821.3	3632.0	3619.5	3540.7	3495.8	4000.1	5060.4	4942.7	3859.8
55°	4268.7	4058.2	3942.8	3963.5	4117.4	3851.5	3814.9	4374.6	5434.2	5298.0	4176.6
57.5°	3942.4	3712.7	3737.2	3860.2	4273.6	4397.3	4335.0	4774.8	5767.6	5705.7	4568.5
60°	3071.1	2953.0	3152.5	3377.4	4064.6	4557.2	4994.7	5262.9	6178.0	6276.8	5184.1
62.5°	1995.0	1837.3	2152.6	2534.3	3441.1	4451.6	5666.5	6188.5	6850.1	7074.6	6119.5
65°	1033.5	1008.2	1228.9	1579.7	2395.5	3795.7	5903.4	7159.4	7667.1	7928.5	7013.1
67.5°	751.4	704.6	806.8	1013.1	1462.4	2588.3	5454.5	7902.1	8323.1	8562.6	7532.5
70°	572.2	537.5	615.6	743.4	955.0	1462.0	4026.5	7699.6	8576.2	8692.3	7463.4
72.5°	428.5	398.7	467.0	586.2	735.9	823.0	2380.1	6330.7	8144.3	8183.9	6698.5
75°	342.1	319.1	348.5	462.8	599.7	560.1	1264.3	4586.6	6617.0	6651.0	5116.6
77.5°	280.6	261.0	273.1	347.0	466.6	421.3	627.3	2917.6	4201.1	4149.1	2878.7
80°	229.0	212.0	217.6	250.8	355.3	314.6	352.3	1522.0	2004.0	1923.3	1197.2
82.5°	176.1	161.8	173.1	184.4	257.2	225.9	205.6	692.5	820.8	764.6	439.0
85°	118.1	104.9	150.5	138.4	168.2	138.8	112.4	275.7	305.9	285.2	154.3
87.5°	32.4	30.6	50.5	69.0	69.0	52.4	41.1	66.8	85.2	74.7	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9
2.5°	447.0	438.7	416.8	414.9	420.2	420.9	417.5	409.6	405.5	428.1	424.7
5°	575.6	546.2	528.4	512.2	489.6	473.4	477.5	488.8	492.6	509.6	511.5
7.5°	675.5	636.7	597.8	545.8	511.5	489.6	506.2	518.3	527.7	551.8	561.6
10°	718.9	676.7	621.6	566.9	557.5	561.3	551.8	554.8	569.6	570.7	575.6
12.5°	799.6	751.7	652.5	603.1	600.5	608.4	605.0	619.0	629.2	656.7	645.0
15°	877.0	815.9	675.9	625.4	614.4	630.3	648.8	672.2	694.0	720.1	706.9
17.5°	970.9	878.9	677.1	615.2	617.1	651.0	670.3	683.1	748.3	784.2	766.1
20°	1030.1	885.3	651.8	589.9	617.1	647.6	674.4	688.4	761.5	815.5	827.9
22.5°	1083.7	887.5	632.2	576.3	593.7	634.1	674.4	705.3	752.1	803.8	805.7
25°	1113.1	885.6	606.9	577.5	593.3	613.3	649.1	677.4	712.1	784.2	786.1
27.5°	1188.5	861.1	582.0	582.0	590.3	591.1	636.7	653.3	658.2	723.8	735.5
30°	1210.4	866.4	579.0	581.2	585.4	577.9	597.8	608.8	616.0	672.5	674.4
32.5°	1245.5	824.2	588.0	574.5	569.2	568.0	573.0	582.8	585.8	620.5	626.9
35°	1288.1	807.2	591.1	572.6	562.0	556.4	571.1	559.0	568.4	609.2	613.7
37.5°	1426.9	783.8	606.5	572.6	559.0	552.6	545.4	551.1	584.6	623.9	648.0
40°	1515.5	791.0	602.7	578.2	548.8	542.8	530.7	551.5	603.5	672.9	691.0
42.5°	1670.9	795.1	607.3	575.6	552.2	528.8	536.7	559.4	614.1	653.7	681.6
45°	1831.6	807.9	604.3	567.7	544.7	555.6	544.7	565.0	591.1	592.2	613.3
47.5°	1989.3	859.6	597.8	551.5	542.8	571.4	543.5	546.9	548.8	555.6	580.5
50°	2174.5	914.7	588.8	528.8	545.4	572.2	547.7	531.1	529.2	551.5	579.4
52.5°	2385.0	976.9	577.1	506.9	530.0	565.0	562.0	532.2	516.0	537.5	565.4
55°	2632.8	1047.8	563.5	485.1	513.0	565.8	569.9	524.3	516.4	539.8	569.6
57.5°	2962.1	1150.4	537.1	453.4	492.2	554.1	549.6	515.2	507.7	532.6	563.5
60°	3524.1	1347.7	499.4	422.1	470.0	525.4	533.0	499.0	491.5	519.0	551.5
62.5°	4276.6	1584.9	453.8	391.5	442.8	494.5	512.2	475.6	474.9	510.0	543.9
65°	4977.0	1719.6	406.6	363.6	414.9	465.8	488.8	453.8	455.3	499.4	533.3
67.5°	5268.2	1561.2	364.4	338.7	382.8	433.0	469.6	436.8	431.9	485.1	516.4
70°	4994.7	1240.2	327.8	312.3	346.6	397.6	442.8	414.2	402.8	451.1	475.6
72.5°	4419.5	1033.9	293.5	281.4	315.0	360.2	406.6	383.6	368.9	405.9	427.7
75°	3454.7	848.3	254.2	250.8	278.7	326.3	368.9	353.0	334.2	357.6	379.5
77.5°	1967.0	536.7	213.5	215.8	235.7	285.9	323.6	311.2	291.9	301.8	327.0
80°	787.2	270.8	171.6	173.1	190.1	235.0	268.2	263.7	243.7	251.6	268.9
82.5°	294.2	148.6	126.7	127.5	144.5	186.0	229.0	226.7	207.8	202.2	212.0
85°	116.9	73.6	77.7	81.1	97.3	133.9	183.7	162.9	140.7	123.3	129.4
87.5°	27.9	23.4	27.2	28.7	31.7	41.9	67.1	53.9	55.4	44.5	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)